

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A coupling device (100) for liquid-tight coupling of at least one liquid line (10) to a fluidic system, said coupling device comprising (20), which comprises:

[[-]]at least one sealing device (30) having at least one bushing (32), ~~which is~~ adapted to receive an end region (11) of the at least one liquid line (10) and ~~has~~ having a first sealing surface (31) adapted to ~~for~~ contact ~~on~~ an external surface (22) of the fluidic system, ~~the an~~ end of the at least one liquid line (10) being laterally enclosed by the first sealing surface (31) and pointing toward an opening (23) in the external surface (22), and

[[-]]a clamping device (40) having at least one hollow plunger (41, 47), ~~which forms~~ forming a receptacle (43) for at least a part of the at least one bushing (32) ~~and using which,~~ wherein the clamping device is adapted to press the bushing (32) ~~may be pressed~~ onto the fluidic system (20), so that the first sealing surface (31) produces a liquid-tight connection with the external surface (22), ~~characterized in that~~

[[-]] wherein the at least one hollow plunger ~~is~~ (41, 47) ~~being~~ situated so ~~it is~~ as to be movable in relation to the external surface (22), [[and -]]the at least one bushing ~~has~~ (32) having an external shape ~~which adapted to~~ interacts with the an internal shape of the at least one hollow plunger (41, 47) of the clamping device (40) in such a way that a force directed toward the external surface (22) of the fluidic system ~~may be~~ is exerted on the at least one bushing (32)

using the at least one hollow plunger ~~(41, 47)~~, and the at least one bushing has a projection forming the first sealing surface and an engagement surface for the clamping device.

2. (Currently Amended) The coupling device according to Claim 1, wherein the at least one hollow plunger ~~(41, 47)~~ forms a conical or a cylindrical receptacle ~~(43)~~ for the particular at least one bushing ~~(32)~~ of the sealing device ~~(30)~~.

3. (Currently Amended) The coupling device according to Claim 2, wherein the at least one bushing ~~(32)~~ of the sealing device ~~(30)~~ has a conical external shape.

4. (Canceled).

5. (Currently Amended) The coupling device according to Claim 1 ~~one of the preceding claims~~, wherein the at least one bushing ~~(32)~~ has an internal hollow channel ~~(34)~~ which is adapted for removably receiving the end region ~~(11)~~ of the at least one liquid line ~~(10)~~, the internal hollow channel ~~(34)~~ forming a second sealing surface ~~(35)~~ and the at least one sealing device ~~(30)~~ being able to be pressed against the end region ~~(11)~~ of the at least one liquid line ~~(10)~~ using the hollow plunger ~~(41, 47)~~ in such a way that the second sealing surface ~~(33)~~ produces a liquid-tight connection with the surface of the end region ~~(11)~~.

6. (Currently Amended) The coupling device according to Claim 5, wherein the internal hollow channel ~~(34)~~ has a cylindrical internal shape.

7. (Currently Amended) The coupling device according to Claim 1 ~~one of the preceding claims~~, wherein the first sealing surface ~~(31)~~ is larger than the cross-sectional area of the end of the at least one liquid line ~~(10)~~.

8. (Currently Amended) The coupling device according to Claim 1 ~~one of the preceding claims~~, wherein multiple bushings ~~(32)~~ are provided on the at least one sealing device ~~(30)~~, ~~which form the multiple bushings forming~~ at least one sealing unit ~~(36)~~ and being adapted to couple ~~using which~~ multiple liquid lines ~~(10)~~ ~~may be coupled~~ to the fluidic system ~~(20)~~ simultaneously.

9. (Currently Amended) The coupling device according to Claim 8, wherein the bushings ~~(32)~~ of the sealing device ~~(30)~~ are connected to one another in rows or in a matrix in the at least one sealing unit ~~(36)~~.

10. (Currently Amended) The coupling device according to Claim 9, wherein the at least one sealing unit ~~(36)~~ forms a sealing mat ~~(33)~~, from which the bushings ~~(32)~~ project.

11. (Currently Amended) The coupling device according to Claim ~~8 or 9~~, wherein the clamping device ~~(40)~~ comprises a fluidic block ~~(45)~~, in which hollow plungers ~~(47)~~ are formed in accordance with ~~the~~ an arrangement of the bushings ~~(32)~~ of the at least one sealing unit ~~(36)~~.

12. (Currently Amended) The coupling device according to ~~one of Claims 8 through 11~~, wherein, further comprising a holding plate ~~(25)~~ ~~is provided~~, which is permanently connected with the fluidic system ~~(20)~~ and ~~which is set up~~ arranged for positioning the at least one sealing unit ~~(36)~~ on the fluidic system ~~(20)~~.

13. (Currently Amended) The coupling device according to Claim 12, wherein the fluidic block is arranged to ~~(45)~~ ~~may be pressed~~ onto the holding plate ~~(25)~~ using a bayonet connector ~~(42)~~.

14. (Currently Amended) A fluidic system comprising(20) ~~having~~ a chip body (24), to which at least one liquid line (10) is connected using a coupling device according to ~~one of the preceding claims~~ Claim 1.

15. (Currently Amended) The fluidic system according to Claim 14, wherein the chip body (24) has an external surface (22), the external surface being ~~which is~~ planar at least in some sections and having in which at least one opening (23) is formed, adjoined to ~~which~~ a line end (11) of the at least one liquid line (10) adjoins.

16. (Currently Amended) The fluidic system according to Claim 15, wherein the line end (11) of the at least one liquid line (10) has a cylindrical external shape.

17. (Currently Amended) The fluidic system according to ~~one of~~ Claims 14 to 16, which comprises a fluidic microsystem.

18. (Currently Amended) A method for liquid-tight coupling of at least one liquid line (10) to a fluidic system (20) using a coupling device (100) according to ~~one of preceding~~ Claims 1 through 13, said method comprising ~~having the following steps~~:

[[-]]forming a composite of the at least one liquid line (10) with one bushing (32) of at the at least one sealing device (30), respectively, the clamping device (40), and the fluidic system (20), and

[[-]]actuating the clamping device (40) to produce a contact pressure on the projection (33) of the bushing (32) in such a way that the sealing device (30) forms the liquid-tight connection with the external surface of the fluidic system (20).

19. (Currently Amended) The method according to Claim 18, wherein, to produce the composite, the end region-(11) of the at least one liquid line-(10) is plugged into a bushing-(32) of the at least one sealing device-(30), which was previously positioned with the clamping device (40) on the fluidic system-(20), so that the end of the at least one liquid line-(10) points toward an opening in the external surface of the fluidic system-(20).

20. (Currently Amended) The method according to Claim 18, wherein, to produce the composite, the end region-(11) of the at least one liquid line-(10) is plugged into a bushing-(32) of the sealing device-(30), which is subsequently connected to the clamping device-(40) and positioned on the fluidic system-(20), so that the end of the at least one liquid line-(10) points toward an opening in the external surface of the fluidic system-(20).

21. (Currently Amended) The method according to ~~one of~~ Claim 18 ~~through 20~~, wherein the contact pressure is exerted by closing a bayonet connector-(42) between the clamping device-(40) and the fluidic system-(20).